



ELSEVIER

Author Index, Volumes 62-66

Abdel-Sabour, M.F., *see* Elmosly, W.A. et al.

Aeschlimann, J.P.
Resolutions adopted by the IOBC/OILB conference «Technology transfer in biological control: from research to practice», Montpellier, September 1996 64 (1997) 277

Agbenin, J.O. and J.T. Goladi
Carbon, nitrogen and phosphorus dynamics under continuous cultivation as influenced by farmyard manure and inorganic fertilizers in the savanna of northern Nigeria 63 (1997) 17

Albergel, J., *see* Perez, P. et al.

Ambrosini, D., *see* Zuccheo, P. et al.

Andersen, P.N., *see* Odderskaer, P. et al.

Angers, D.A., *see* Bolinder, M.A. et al.

Appolinaire, M., *see* Kotto-Same, J. et al.

Armstrong, G. and R.G. McKinlay
Vegetation management in organic cabbages and pitfall catches of carabid beetles 64 (1997) 267

Armstrong, G., *see* Chapman, P.A. et al.

Ashenden, T.W., *see* Kupcinskiene, E.A. et al.

Atkinson, D. and R.G. McKinlay
Crop protection and its integration within sustainable farming systems 64 (1997) 87

Autio, W.R., *see* Cooley, D.R. et al.

Baars, T., *see* Vereijken, J.F.H.M. et al.

Badini, O., C.O. Stöckle and E.H. Franz
Application of crop simulation modeling and GIS to agroclimatic assessment in Burkina Faso 64 (1997) 233

Báldi, A. and T. Kisbenedek
Orthopteran assemblages as indicators of grassland naturalness in Hungary 66 (1997) 121

Baltezore, J.F., *see* Leitch, J.A. et al.

Banerjee, M.R., D.L. Burton and S. Depoe
Impact of sewage sludge application on soil biological characteristics 66 (1997) 241

Barale, U., *see* Bevilacqua, M. et al.

Barlow, N.D., *see* Goldson, S.L. et al.

Beare, M.H., *see* Hu, S. et al.

Becker, A., *see* Cox, L. et al.

Beismann, M.
Landscaping on a farm in northern Germany, a case study of conceptual and social fundaments for the development of an ecologically sound agro-landscape 63 (1997) 173

Bell, S.A., *see* Kupcinskiene, E.A. et al.

Bernardos, J., *see* Viglizzo, E.F. et al.

Bevilacqua, M., M. Bevilacqua, E. Serra, A. Vianello, E. Garrou, B. Sparagna, U. Barale and C.A. Zaccagna
Natural resin association such as incense and propolis in zootechnology 62 (1997) 247

Bevilacqua, M., *see* Bevilacqua, M. et al.

Bolinder, M.A., D.A. Angers and J.P. Dubuc
Estimating shoot to root ratios and annual carbon inputs in soils for cereal crops 63 (1997) 61

Borin, M., *see* Zanin, G. et al.

Bosshard, A.
What does objectivity mean for analysis, valuation and implementation in agricultural landscape planning? A practical and epistemological approach to the search for sustainability in 'agri-culture' 63 (1997) 133

Bradshaw, B. and B. Smit
Subsidy removal and agroecosystem health 64 (1997) 245

Brambilla, G., *see* Migliore, L. et al.

Brunet, R., C. Girard and A. Cyr
Comparative study of the signs of intoxication and changes in activity level of red-winged blackbirds (*Agelaius phoeniceus*) exposed to dimethoate 64 (1997) 201

Bukkens, S.G.F., *see* Gomiero, T. et al.

Burton, D.L., *see* Banerjee, M.R. et al.

Caballero, A., *see* Diez, J.A. et al.

Caballero, R., *see* Diez, J.A. et al.

Canard, A., *see* Marc, P. et al.

Cardwell, K.F., F. Schulthess, R. Ndemah and Z. Ngoko
A systems approach to assess crop health and maize yield losses due to pests and diseases in Cameroon 65 (1997) 33

Carroll, C.R., *see* Hu, S. et al.

Casoria, P., *see* Migliore, L. et al.

Celis, R., *see* Cox, L. et al.

Chadwick, D.R. and B.F. Pain
Methane fluxes following slurry applications to grassland soils: laboratory experiments 63 (1997) 51

Chao, C.C., *see* Chao, W.L. et al.

Chao, W.L. and C.C. Chao
Nitrogen transformation in tropical soils:

influence of fertilization and crop species

Chapman, P.A. and G. Armstrong
Design and use of a time-sorting pitfall trap for predatory arthropods

Civitareale, C., *see* Migliore, L. et al.

Coleman, D.C., *see* Hu, S. et al.

Colquhoun, M.
An exploration into the use of Goethean science as a methodology for landscape assessment: the Pishwanton Project

Conforti, P. and M. Giampietro
Fossil energy use in agriculture: an international comparison

Cooley, D.R. and W.R. Autio
Disease-management components of advanced integrated pest management in apple orchards

Cornejo, J., *see* Cox, L. et al.

Couto, E.G., A. Stein and E. Klamt
Large area spatial variability of soil chemical properties in central Brazil

Cox, L., R. Celis, M.C. Hermosin, A. Becker and J. Cornejo
Porosity and herbicide leaching in soils amended with olive-mill wastewater

Cozzolino, S., *see* Migliore, L. et al.

Crozier, C., *see* DeLaune, R.D. et al.

Cyr, A., *see* Brunet, R. et al.

Dass, S., *see* Mishra, S. et al.

Deblay, S., *see* Giraudoux, P. et al.

Defaut, R., *see* Giraudoux, P. et al.

De Jong, W.
Developing swidden agriculture and the threat of biodiversity loss

De Koning, G.H.J., P.J. Van de Kop and L.O. Fresco
Estimates of sub-national nutrient balances as sustainability indicators for agro-ecosystems in Ecuador

Delattre, P., *see* Giraudoux, P. et al.

DeLaune, R.D., I. Devai, C. Mulbah, C. Crozier and C.W. Lindau
The influence of soil redox conditions on atrazine degradation in wetlands

Depoe, S., *see* Banerjee, M.R. et al.

De Snoo, G.R.
Arable flora in sprayed and unsprayed crop edges

Devai, I., *see* DeLaune, R.D. et al.

Dezhong Shen,
Microbial diversity and application of microbial products for agricultural purposes in China

Diatta, M., *see* Perez, P. et al.

Diez, J.A., R. Roman, R. Caballero and A. Caballero
Nitrate leaching from soils under a maize-wheat-maize sequence, two irrigation schedules and three types of fertilisers

Doing, H.
The landscape as an ecosystem

Donaldson, G.V., *see* Jordan, V.W.L. et al.

Douds Jr., D.D., L. Galvez, M. Franke-Snyder, C. Reider and L.E. Drinkwater
Effect of compost addition and crop rotation point upon VAM fungi

Dover, J.W.
Conservation headlands: effects on butterfly distribution and behaviour

Doyle, C.J.
A review of the use of models of weed control in Integrated Crop Protection

Drinkwater, L.E., *see* Douds Jr., D.D. et al.

Dubuc, J.P., *see* Bolinder, M.A. et al.

Duelli, P.
Biodiversity evaluation in agricultural landscapes: An approach at two different scales

Duhamel, R., *see* Giraudoux, P. et al.

Du Xiang-ge, *see* Yan Yu-hua, et al.

Edge, C.P., *see* Kupcinskene, E.A. et al.

Elmegaard, N., *see* Odderskær, P. et al.

Elmosly, W.A. and M.F. Abdel-Sabour
Transfer characteristics and uptake of nickel by red clover grown on nickel amended alluvial soils of an arid zone

Entz, M.H., *see* Kelner, D.J. et al.

Faminow, M.D.
Spatial economics of local demand for cattle products in Amazon development

Farmer, D.P., *see* Jordan, V.W.L. et al.

Feber, R.E., L.G. Firbank, P.J. Johnson and D.W. Macdonald
The effects of organic farming on pest and non-pest butterfly abundance

Feber, R.E., *see* Shore, R.F. et al.

Firbank, L.G., *see* Feber, R.E. et al.

Firbank, L.G., *see* Shore, R.F. et al.

Fishwick, S.K., *see* Shore, R.F. et al.

Foissner, W.
Protozoa as bioindicators in agroecosystems, with emphasis on farming practices, biocides, and biodiversity

Föllster, H., *see* Hölscher, D. et al.

Fossi, F., *see* Rossi, R. et al.

Fox, R.T.V.
The present and future use of technology to detect plant pathogens to guide disease control in sustainable farming systems

Franke-Snyder, M., *see* Douds Jr., D.D. et al.

Franz, E.H., *see* Badini, O. et al.

Fresco, L.O., *see* De Koning, G.H.J. et al.

Galvez, L., *see* Douds Jr., D.D. et al.

Garrou, E., *see* Bevilacqua, M. et al.

Gaudio, L., *see* Migliore, L. et al.

Genevini, P., *see* Zuccheo, P. et al.
 Giampietro, M.
 Socioeconomic constraints to farming with biodiversity
 Giampietro, M.
 Socioeconomic pressure, demographic pressure, environmental loading and technological changes in agriculture
 Giampietro, M., *see* Conforti, P. et al.
 Giampietro, M., *see* Gomiero, T. et al.
 Giddens, K., *see* McIntosh, P.D. et al.
 Girard, C., *see* Brunet, R. et al.
 Giraudoux, P., P. Delattre, M. Habert, J.P. Quéré, S. Deblay, R. Defaut, R. Duhamel, M.F. Moisset, D. Salvi and D. Truchetet
 Population dynamics of fossorial water vole (*Arvicola terrestris scherman*): a land use and landscape perspective
 Glynn, C.J., *see* McDonald, D.G. et al.
 Goladi, J.T., *see* Agbenin, J.O. et al.
 Goldson, S.L., C.B. Phillips, M.R. McNeill and N.D. Barlow
 The potential of parasitoid strains in biological control: Observations to date on *Microctonus* spp. intraspecific variation in New Zealand
 Gomiero, T., M. Giampietro, S.G.F. Bokkens and M.G. Paoletti
 Biodiversity use and technical performance of freshwater fish aquaculture in different socioeconomic contexts: China and Italy
 Gounou, S., *see* Schulthess, F. et al.
 Greenland, R., *see* Prunty, L. et al.
 Gross, K.L., *see* Marino, P.C. et al.
 Grouzis, M., *see* Perez, P. et al.
 Gutsche, V. and D. Rossberg
 SYNOPS 1.1: a model to assess and to compare the environmental risk potential of active ingredients in plant protection products
 Habert, M., *see* Giraudoux, P. et al.
 Hack-ten Broeke, M.J.D. and A.H.J. Van der Putten
 Nitrate leaching affected by management options with respect to urine-affected areas and groundwater levels for grazed grassland
 Haque, I., *see* Mugwira, L.M. et al.
 Haruvy, N.
 Agricultural reuse of wastewater: nationwide cost-benefit analysis
 Haynes, R.J., *see* Williams, P.H. et al.
 Hendriks, K., D.J. Stobbehaar and J.D. van Mansvelt
 Some criteria for landscape quality applied on an organic goat farm in Gelderland, the Netherlands
 Hendrix, P.F., *see* Hu, S. et al.
 Hermosin, M.C., *see* Cox, L. et al.
 Hewitt, A.E., *see* McIntosh, P.D. et al.
 Hill, D., *see* Pain, D.J. et al.
 Hoffmann, M.P., *see* McDonald, D.G. et al.
 Hölscher, D., B. Ludwig, R.F. Möller and H. Fölster
 Dynamic of soil chemical parameters in shifting agriculture in the Eastern Amazon
 Hu, S., D.C. Coleman, C.R. Carroll, P.F. Hendrix and M.H. Beare
 Labile soil carbon pools in subtropical forest and agricultural ecosystems as influenced by management practices and vegetation types
 Hutcheon, J.A., *see* Jordan, V.W.L. et al.
 Janzen, H.H., *see* Larney, F.J. et al.
 Jeger, M.J.
 Approaches to integrated crop protection in university education and training
 Johnson, P.J., *see* Feber, R.E. et al.
 Jordan, V.W.L., J.A. Hutcheon, G.V. Donaldson and D.P. Farmer
 Research into and development of integrated farming systems for less-intensive arable crop production: experimental progress (1989-1994) and commercial implementation
 Kádár, F., *see* Kiss, J. et al.
 Kajak, A.
 Effects of epigaeic macroarthropods on grass litter decomposition in mown meadow
 Kalburtji, K.L., A.P. Mamolos and S. Kostopoulou
 Nutrient release from decomposing *Lotus corniculatus* residues in relation to soil pH and nitrogen levels
 Kaoneka, A.R.S. and B. Solberg
 Analysis of deforestation and economically sustainable farming systems under pressure of population growth and income constraints at the village level in Tanzania
 Kelner, D.J., J.K. Vessey and M.H. Entz
 The nitrogen dynamics of 1-, 2- and 3-year stands of alfalfa in a cropping system
 Keya, G.A.
 Effects of herbivory on the production ecology of the perennial grass *Leptothrix senegalense* (Kunth.) in the arid lands of Northern Kenya
 Kisbenedek, T., *see* Báldi, A. et al.
 Kiss, J., K. Penksza, F. Tóth and F. Kádár
 Evaluation of fields and field margins in nature production capacity with special regard to plant protection
 Klamt, E., *see* Couto, E.G. et al.
 Knight, J.D.
 The role of decision support systems in integrated crop protection
 Koehler, H.H.
 Mesostigmata (Gamasina, Uropodina), efficient predators in agroecosystems
 62 (1997) 145
 65 (1997) 201
 66 (1997) 47
 64 (1997) 115
 62 (1997) 169
 64 (1997) 181
 66 (1997) 197
 66 (1997) 113
 63 (1997) 185
 66 (1997) 101
 65 (1997) 107
 64 (1997) 173
 65 (1997) 69
 66 (1997) 153
 64 (1997) 141
 64 (1997) 53
 65 (1997) 107
 62 (1997) 59
 64 (1997) 1
 66 (1997) 101
 63 (1997) 227
 64 (1997) 157
 62 (1997) 105

Kostopoulou, S., *see* Kalburjji, K.L. et al.

Kotto-Same, J., P.L. Woomer, M. Appolinaire and Z. Louis
Carbon dynamics in slash-and-burn agriculture and land use alternatives of the humid forest zone in Cameroon 65 (1997) 245

Krivolutskii, D.A., *see* Pokarzhevskii, A.D. et al.

Kuiper, J.
Organic mixed farms in the landscape of a brook valley. How can a co-operative of organic mixed farms contribute to ecological and aesthetic qualities of a landscape? 63 (1997) 121

Kupcinskiene, E.A., T.W. Ashenden, S.A. Bell, T.G. Williams, C.P. Edge and C.R. Rafael
Responses of *Agrostis capillaris* to gaseous pollutants and wet nitrogen deposition. 66 (1997) 89

Landis, D.A., *see* Marino, P.C. et al.

Landon, F., J. Levieux, D. Rougon and P. Taupin
Influence of the immediate environment on the dispersal of *Sitona lineatus* L. (Col., Curc.) during crop colonisation 64 (1997) 261

Larney, F.J. and H.H. Janzen
A simulated erosion approach to assess rates of cattle manure and phosphorus fertilizer for restoring productivity to eroded soils 65 (1997) 113

Le Duc, M.G., *see* Pakeman, R.J. et al.

Leitch, J.A., G.M. Linz and J.F. Baltezore
Economics of cattail (*Typha* spp.) control to reduce blackbird damage to sunflower. 65 (1997) 141

Lértora, F., *see* Viglizzo, E.F. et al.

Levieux, J., *see* Landon, F. et al.

Lexmond, T.M., *see* Moolenaar, S.W. et al.

Lindau, C.W., *see* DeLaune, R.D. et al.

Linz, G.M., *see* Leitch, J.A. et al.

Lockyer, D.R.
Methane emissions from grazing sheep and calves 66 (1997) 11

López Gay, E., *see* Viglizzo, E.F. et al.

Louis, Z., *see* Kotto-Same, J. et al.

Ludwig, B., *see* Hölscher, D. et al.

Lupwayi, N.Z., *see* Mugwira, L.M. et al.

Luyindula, N., *see* Mugwira, L.M. et al.

Macdonald, D.W., *see* Feber, R.E. et al.

Macdonald, D.W., *see* Shore, R.F. et al.

Mamolos, A.P., *see* Kalburjji, K.L. et al.

Manderscheid, R. and H.J. Weigel
Photosynthetic and growth responses of old and modern spring wheat cultivars to atmospheric CO₂ enrichment 64 (1997) 65

Marc, P. and A. Canard
Maintaining spider biodiversity in agroecosystems as a tool in pest control 62 (1997) 229

Marino, P.C., K.L. Gross and D.A. Landis
Weed seed loss due to predation in Michigan maize fields 66 (1997) 189

Marsh, J.S.
The policy approach to sustainable farming systems in the EU 64 (1997) 103

Martsolf, E., *see* Stinner, D.H. et al.

McCracken, D.I., *see* Pain, D.J. et al.

McDonald, D.G., C.J. Glynn, M.P. Hoffmann and C.W. Petzoldt
Effects of grower participation on onion IPM demonstrations 66 (1997) 131

McIntosh, P.D., A.E. Hewitt, K. Giddens and M.D. Taylor
Benchmark sites for assessing the chemical impacts of pastoral farming on loessial soils in southern New Zealand 65 (1997) 267

McKinlay, R.G., *see* Armstrong, G. et al.

McKinlay, R.G., *see* Atkinson, D. et al.

McNeill, M.R., *see* Goldson, S.L. et al.

Migliore, L., C. Civitareale, G. Brambilla, S. Cozzolino, P. Casoria and L. Gaudio
Effects of sulphadimethoxine on cosmopolitan weeds (*Amaranthus retroflexus* L., *Plantago major* L. and *Rumex acetosella* L.) 65 (1997) 163

Mishra, S., K. Shanker, M.M. Srivastava, S. Srivastava, R. Shrivastav, S. Dass and S. Prakash
A study on the uptake of trivalent and hexavalent chromium by paddy (*Oryza sativa*): possible chemical modifications in rhizosphere 62 (1997) 53

Mohamed Saleem, M.A., *see* Mwendera, E.J. et al.

Mohamed Saleem, M.A., *see* Mwendera, E.J. et al.

Moissenet, M.F., *see* Giraudoux, P. et al.

Möller, R.F., *see* Hölscher, D. et al.

Moolenaar, S.W., T.M. Lexmond and S.E.A.T.M. Van der Zee
Calculating heavy metal accumulation in soil: a comparison of methods illustrated by a case-study on compost application 66 (1997) 71

Mugwira, L.M., I. Haque, N.Z. Lupwayi and N. Luyindula
Evaluation of phosphorus uptake and use efficiency and nitrogen fixation potential by African clovers 65 (1997) 169

Mulbah, C., *see* DeLaune, R.D. et al.

Mwendera, E.J. and M.A. Mohamed Saleem
Hydrologic response to cattle grazing in the Ethiopian highlands 64 (1997) 33

Mwendera, E.J., M.A. Mohamed Saleem and Z. Woldu
Vegetation response to cattle grazing in the Ethiopian highlands 64 (1997) 43

Ndemah, R., *see* Cardwell, K.F. et al.

Neue, H.U., *see* Wang, B. et al.

Neuenschwander, P., *see* Schulthess, F. et al.

Ngoko, Z., *see* Cardwell, K.F. et al.

Nørum, U., <i>see</i> Shore, R.F. et al.		
Nota, D., <i>see</i> Rossi, R. et al.		
Odderskær, P., A. Prang, J.G. Poulsen, P.N. Andersen and N. Elmgaard		
Skylark (<i>Alauda arvensis</i>) utilisation of micro-habitats in spring barley fields	62 (1997) 21	63 (1997) 159
Olszyk, D.M. and C. Wise		
Interactive effects of elevated CO ₂ and O ₃ on rice and <i>flacca</i> tomato	66 (1997) 1	65 (1997) 177
Oso, B.A., <i>see</i> Taiwo, L.B. et al.		
Otto, S., <i>see</i> Zanin, G. et al.		
Pain, B.F., <i>see</i> Chadwick, D.R. et al.		
Pain, D.J., D. Hill and D.I. McCracken		
Impact of agricultural intensification of pastoral systems on bird distributions in Britain 1970-1990	64 (1997) 19	63 (1997) 91
Pakeman, R.J., M.G. Le Duc and R.H. Marrs		
Moorland vegetation succession after the control of bracken with asulam	62 (1997) 41	66 (1997) 211
Paoletti, M.G., <i>see</i> Gomiero, T. et al.		
Päts, P., <i>see</i> Skovgård, H. et al.		
Pech, J.D., <i>see</i> Summers, R.N. et al.		
Penksza, K., <i>see</i> Kiss, J. et al.		
Perez, P., J. Albergel, M. Diatta, M. Grouzis and M. Sene		
Rehabilitation of a semiarid ecosystem in Senegal. Experiments at the hillside scale	65 (1997) 95	64 (1997) 211
Petzoldt, C.W., <i>see</i> McDonald, D.G. et al.		
Phillips, C.B., <i>see</i> Goldson, S.L. et al.		
Pickett, J.A., L.J. Wadhams and C.M. Woodcock		
Developing sustainable pest control from chemical ecology	64 (1997) 149	62 (1997) 13
Pokarzhevskii, A.D. and D.A. Krivolutskii		
Problems of estimating and maintaining biodiversity of soil biota in natural and agroecosystems: A case study of chernozem soil	62 (1997) 127	62 (1997) 135
Poulik, Z.		
The danger of cumulation of nickel in cereals on contaminated soil	63 (1997) 25	
Poulsen, J.G., <i>see</i> Odderskær, P. et al.		
Prakash, S., <i>see</i> Mishra, S. et al.		
Prang, A., <i>see</i> Odderskær, P. et al.		
Prunty, L. and R. Greenland		
Nitrate leaching using two potato-corn N-fertilizer plans on sandy soil	65 (1997) 1	64 (1997) 191
Quéré, J.P., <i>see</i> Giraudoux, P. et al.		
Rafarel, C.R., <i>see</i> Kupcinskiene, E.A. et al.		
Ranells, N.N. and M.G. Wagler		
Winter annual grass-legume bicultures for efficient nitrogen management in no-till corn	65 (1997) 23	62 (1997) 199
Reider, C., <i>see</i> Douds Jr., D.D. et al.		
Remmers, G.G.A., <i>see</i> Santos Pérez, A. et al.		
Riello, L., <i>see</i> Zanin, G. et al.		
Roberto, Z.E., <i>see</i> Viglizzo, E.F. et al.		
Roman, R., <i>see</i> Diez, J.A. et al.		
Rossberg, D., <i>see</i> Gutsche, V. et al.		
Rossi, R., D. Nota and F. Fossi		
Landscape and nature production capacity of organic types of agriculture: examples of organic farms in two Tuscan landscapes		
Rougon, D., <i>see</i> Landon, F. et al.		
Saharinen, M.H., <i>see</i> Vuorinen, A.H. et al.		
Salcedo, I.H., H. Tiessen and E.V.S.B. Sampaio		
Nutrient availability in soil samples from shifting cultivation sites in the semi-arid Caatinga of NE Brazil		
Salvi, D., <i>see</i> Giraudoux, P. et al.		
Samonte, H.P., <i>see</i> Wang, B. et al.		
Sampaio, E.V.S.B., <i>see</i> Salcedo, I.H. et al.		
Santos Pérez, A. and G.G.A. Remmers		
A landscape in transition: an historical perspective on a Spanish latifundist farm		
Schulthess, F., P. Neuenschwander and S. Gounou		
Multi-trophic interactions in cassava, <i>Manihot esculenta</i> , cropping systems in the sub-humid tropics of West Africa		
Schulthess, F., <i>see</i> Cardwell, K.F. et al.		
Sene, M., <i>see</i> Perez, P. et al.		
Serra, E., <i>see</i> Bevilacqua, M. et al.		
Shanker, K., <i>see</i> Mishra, S. et al.		
Shore, R.F., R.E. Feber, L.G. Firbank, S.K. Fishwick, D.W. Macdonald and U. Nørum		
The impacts of molluscicide pellets on spring and autumn populations of wood mice <i>Apodemus sylvaticus</i>		
Srivastav, R., <i>see</i> Mishra, S. et al.		
Skovgård, H. and P. Päts		
Reduction of stemborer damage by intercropping maize with cowpea		
Smil, V.		
Some unorthodox perspectives on agricultural biodiversity. The case of legume cultivation		
Smit, B., <i>see</i> Bradshaw, B. et al.		
Smit, N.E.J.M.		
The effect of the indigenous cultural practices of in-ground storage and piecemeal harvesting of sweetpotato on yield and quality losses caused by sweetpotato weevil in Uganda		
Solberg, B., <i>see</i> Kaoneka, A.R.S. et al.		
Sparagna, B., <i>see</i> Bevilacqua, M. et al.		
Srivastava, M.M., <i>see</i> Mishra, S. et al.		
Srivastava, S., <i>see</i> Mishra, S. et al.		
Stein, A., <i>see</i> Couto, E.G. et al.		
Stinner, B.R., <i>see</i> Stinner, D.H. et al.		
Stinner, D.H., B.R. Stinner and E. Martsolf		
Biodiversity as an organizing principle in agroecosystem management: Case studies of holistic resource management practitioners in the USA		

Stobbelaar, D.J. and J.D. van Mansvelt
 Introduction
Stobbelaar, D.J., *see* Hendriks, K. et al.
Stöckle, C.O., *see* Badini, O. et al.
Summers, R.N. and J.D. Pech
 Nutrient and metal content of water, sediment and soils amended with bauxite residue in the catchment of the Peel Inlet and Harvey Estuary, Western Australia
Taiwo, L.B. and B.A. Oso
 The influence of some pesticides on soil microbial flora in relation to changes in nutrient level, rock phosphate solubilization and P release under laboratory conditions
Taupin, P., *see* Landon, F. et al.
Taylor, M.D., *see* McIntosh, P.D. et al.
Tiessen, H., *see* Salcedo, L.H. et al.
Tonneijck, A.E.G. and C.J. Van Dijk
 Assessing effects of ambient ozone on injury and growth of *Trifolium subterraneum* at four rural sites in the Netherlands with ethylenedurea (EDU)
Tóth, F., *see* Kiss, J. et al.
Truchetet, D., *see* Giraudoux, P. et al.
Tsegaye, B.
 The significance of biodiversity for sustaining agricultural production and role of women in the traditional sector: the Ethiopian experience
Van de Kop, P.J., *see* De Koning, G.H.J. et al.
Van der Putten, A.H.J., *see* Hack-ten Broeke, M.J.D. et al.
Van der Zee, S.E.A.T.M., *see* Moolenaar, S.W. et al.
Van Dijk, C.J., *see* Tonneijck, A.E.G. et al.
Van Gelder, T., *see* Vereijken, J.F.H.M. et al.
Van Mansvelt, J.D.
 An interdisciplinary approach to integrate a range of agro-landscape values as proposed by representatives of various disciplines
Van Mansvelt, J.D., *see* Hendriks, K. et al.
Van Mansvelt, J.D., *see* Stobbelaar, D.J. et al.
Vereijken, J.F.H.M., T. van Gelder and T. Baars
 Nature and landscape development on organic farms
Verhagen, J.
 Site specific fertiliser application for potato production and effects on N-leaching using dynamic simulation modelling
Vessey, J.K., *see* Kelner, D.J. et al.
Vianello, A., *see* Bevilacqua, M. et al.

63 (1997) 83
64 (1997) 219
65 (1997) 59
65 (1997) 79
62 (1997) 215
63 (1997) 233
63 (1997) 201
66 (1997) 165

Viglizzo, E.F., Z.E. Roberto, F. Lérora, E.
 López Gay and J. Bernardos
 Climate and land-use change in field-crop ecosystems of Argentina
Volker, K.
 Local commitment for sustainable rural landscape development
Vuorinen, A.H. and M.H. Saharinen
 Evolution of microbiological and chemical parameters during manure and straw co-composting in a drum composting system
Wadham, L.J., *see* Pickett, J.A. et al.
Wagger, M.G., *see* Ranells, N.N. et al.
Wang, B., H.U. Neue and H.P. Samonte
 Effect of cultivar difference ('IR72', 'IR65598' and 'Dular') on methane emission
Webster, J.P.G.
 Assessing the economic consequences of sustainability in agriculture
Weigel, H.J., *see* Manderscheid, R. et al.
Wiersum, K.F.
 Indigenous exploitation and management of tropical forest resources: an evolutionary continuum in forest-people interactions
Williams, P.H. and R.J. Haynes
 Recovery of N derived from ¹⁵N-labelled grass/clover residues, recently immobilised urine ¹⁵N or native soil organic N by a wheat crop following cultivation of a pasture soil
Williams, T.G., *see* Kupcinskiene, E.A. et al.
Wise, C., *see* Olszyk, D.M. et al.
Woldu, Z., *see* Mwendera, E.J. et al.
Woodcock, C.M., *see* Pickett, J.A. et al.
Woomer, P.L., *see* Kotto-Same, J. et al.
Yan Yu-hua, Yu Yi, Du Xiang-ge and Zhao Bai-ge
 Conservation and augmentation of natural enemies in pest management of Chinese apple orchards
Yin Wen-ying.
 Studies on soil animals in subtropical China
Yu Yi, *see* Yan Yu-hua, et al.
Zaccagna, C.A., *see* Bevilacqua, M. et al.
Zaccheo, P., P. Genevini and D. Ambrosini
 The role of manure in the management of phosphorus resources at an Italian crop-livestock production farm
Zanin, G., S. Otto, L. Riello and M. Borin
 Ecological interpretation of weed flora dynamics under different tillage systems
Zhao Bai-ge, *see* Yan Yu-hua, et al.

66 (1997) 61
63 (1997) 107
66 (1997) 19
62 (1997) 31
64 (1997) 95
63 (1997) 1
63 (1997) 67
62 (1997) 253
62 (1997) 119
66 (1997) 231
66 (1997) 177



ELSEVIER

Subject Index, Volumes 62-66

Accumulation

Calculating heavy metal accumulation in soil: a comparison of methods illustrated by a case-study on compost application, 66 (1997) 71

Accumulation parameter

Transfer characteristics and uptake of nickel by red clover grown on nickel amended alluvial soils of an arid zone, 65 (1997) 49

Acidic pollutants

Responses of *Agrostis capillaris* to gaseous pollutants and wet nitrogen deposition, 66 (1997) 89

Activity

Evolution of microbiological and chemical parameters during manure and straw co-composting in a drum composting system, 66 (1997) 19

Additive fertilizer trial

Nutrient availability in soil samples from shifting cultivation sites in the semi-arid Caatinga of NE Brazil, 65 (1997) 177

Aerial spraying

Moorland vegetation succession after the control of bracken with asulam, 62 (1997) 41

Aesthetic quality

Organic mixed farms in the landscape of a brook valley. How can a co-operative of organic mixed farms contribute to ecological and aesthetic qualities of a landscape?, 63 (1997) 121

Agricultural development policy

Developing swidden agriculture and the threat of biodiversity loss, 62 (1997) 187

Agricultural policy

The policy approach to sustainable farming systems in the EU, 64 (1997) 103

Subsidy removal and agroecosystem health, 64 (1997) 245

Agriculture

Impact of agricultural intensification of pastoral systems on bird distributions in Britain 1970-1990, 64 (1997) 19

Assessing the economic consequences of sustainability in agriculture, 64 (1997) 95

Agroecology

Mesostigmata (Gamasina, Uropodina), efficient predators in agroecosystems, 62 (1997) 105

Agroecosystem

Some unorthodox perspectives on agricultural biodiversity. The case of legume cultivation, 62 (1997) 135

Agro-ecosystem

Calculating heavy metal accumulation in soil: a comparison of methods illustrated by a case-study on compost application, 66 (1997) 71

Agroecosystem health

Subsidy removal and agroecosystem health, 64 (1997) 245

Agroecosystems

Biodiversity evaluation in agricultural landscapes: An approach at two different scales, 62 (1997) 81

Agro-ecosystems

Estimates of sub-national nutrient balances as sustainability indicators for agro-ecosystems in Ecuador, 65 (1997) 127

Agroecosystems

Weed seed loss due to predation in Michigan maize fields, 66 (1997) 189

Agro-landscape

Landscaping on a farm in northern Germany, a case study of conceptual and social fundaments for the development of an ecologically sound agro-landscape, 63 (1997) 173

The landscape as an ecosystem, 63 (1997) 221

An interdisciplinary approach to integrate a range of agro-landscape values as proposed by representatives of various disciplines, 63 (1997) 233

Agrostis capillaris

Responses of *Agrostis capillaris* to gaseous pollutants and wet nitrogen deposition, 66 (1997) 89

Alfisol

Carbon, nitrogen and phosphorus dynamics under continuous cultivation as influenced by farmyard manure and inorganic fertilizers in the savanna of northern Nigeria, 63 (1997) 17

Alluvial soil

Transfer characteristics and uptake of nickel by red clover grown on nickel amended alluvial soils of an arid zone, 65 (1997) 49

Amaranthus

Effects of sulphadimethoxine on cosmopolitan weeds (*Amaranthus retroflexus* L., *Plantago major* L. and *Rumex acetosella* L.), 65 (1997) 163

Amazon

Spatial economics of local demand for cattle products in Amazon development, 62 (1997) 1

Amazonia

Dynamic of soil chemical parameters in shifting agriculture in the Eastern Amazon, 66 (1997) 153

Ammonium nitrate

Responses of *Agrostis capillaris* to gaseous pollutants and wet nitrogen deposition, 66 (1997) 89

Anaerobic digestion

Microbial diversity and application of microbial products for agricultural purposes in China, 62 (1997) 237

Annual C inputs

Estimating shoot to root ratios and annual carbon inputs in soils for cereal crops, 63 (1997) 61

Aphids

Developing sustainable pest control from chemical ecology, 64 (1997) 149

Apoanagyrus lopezi

Multi-trophic interactions in cassava, *Manihot esculenta*, cropping systems in the subhumid tropics of West Africa, 66 (1997) 211

Apple orchard

Conservation and augmentation of natural enemies in pest management of Chinese apple orchards, 62 (1997) 253

Apple scab

Disease-management components of advanced integrated pest management in apple orchards, 66 (1997) 31

Aquaculture

Biodiversity use and technical performance of freshwater fish aquaculture in different socioeconomic contexts: China and Italy, 62 (1997) 169

Arid zone

Transfer characteristics and uptake of nickel by red clover grown on nickel amended alluvial soils of an arid zone, 65 (1997) 49

Arthropod food abundance

Skylark (*Alauda arvensis*) utilisation of micro-habitats in spring barley fields, 62 (1997) 21

Arvicola terrestris

Population dynamics of fossorial water vole (*Arvicola terrestris scherman*): a land use and landscape perspective, 66 (1997) 47

Asulam

Moorland vegetation succession after the control of bracken with asulam, 62 (1997) 41

Asymmetry

Local commitment for sustainable rural landscape development, 63 (1997) 107

Atrazine

The influence of soil redox conditions on atrazine degradation in wetlands, 66 (1997) 41

Bacterial counts

Evolution of microbiological and chemical parameters during manure and straw co-composting in a drum composting system, 66 (1997) 19

Bacterial load

Natural resin association such as incense and propolis in zootechnology, 62 (1997) 247

Balance approach

Calculating heavy metal accumulation in soil: a comparison of methods illustrated by a case-study on compost application, 66 (1997) 71

Bauxite residue

Nutrient and metal content of water, sediment and soils amended with bauxite residue in the catchment of the Peel Inlet and Harvey Estuary, Western Australia, 64 (1997) 219

Beef demand

Spatial economics of local demand for cattle products in Amazon development, 62 (1997) 1

Behaviour

Conservation headlands: effects on butterfly distribution and behaviour, 63 (1997) 31

Benchmarks

Benchmark sites for assessing the chemical impacts of pastoral farming on loessial soils in southern New Zealand, 65 (1997) 267

Bioaccumulation

Effects of sulphadimethoxine on cosmopolitan weeds (*Amaranthus retroflexus* L., *Plantago major* L. and *Rumex acetosella* L.), 65 (1997) 163

Biocides

Protozoa as bioindicators in agroecosystems, with emphasis on farming practices, biocides, and biodiversity, 62 (1997) 93

Biodiversity

Biodiversity evaluation in agricultural landscapes: An approach at two different scales, 62 (1997) 81

Protozoa as bioindicators in agroecosystems, with emphasis on farming practices, biocides, and biodiversity, 62 (1997) 93

Problems of estimating and maintaining biodiversity of soil biota in natural and agroecosystems: A case study of chernozem soil, 62 (1997) 127

Some unorthodox perspectives on agricultural biodiversity. The case of legume cultivation, 62 (1997) 135

Socioeconomic constraints to farming with biodiversity, 62 (1997) 145

Biodiversity use and technical performance of freshwater fish aquaculture in different socioeconomic contexts: China and Italy, 62 (1997) 169

Maintaining spider biodiversity in agroecosystems as a tool in pest control, 62 (1997) 229

Conservation and augmentation of natural enemies in pest management of Chinese apple orchards, 62 (1997) 253

Evaluation of fields and field margins in nature production capacity with special regard to plant protection, 63 (1997) 227

Biodynamic

Landscaping on a farm in northern Germany, a case study of conceptual and social fundaments for the development of an ecologically sound agro-landscape, 63 (1997) 173

Biological control

Conservation and augmentation of natural enemies in pest management of Chinese apple orchards, 62 (1997) 253

The potential of parasitoid strains in biological control: Observations to date on *Microctonus* spp. intraspecific variation in New Zealand, 64 (1997) 115

Biomarker

The impacts of molluscicide pellets on spring and autumn populations of wood mice *Apodemus sylvaticus*, 64 (1997) 211

Biomass

Effect of cultivar difference ('IR72', 'IR65598' and 'Dular') on methane emission, 62 (1997) 31

Biomass yield

Vegetation response to cattle grazing in the Ethiopian highlands, 64 (1997) 43

Biotope diversity

An interdisciplinary approach to integrate a range of agro-landscape values as proposed by representatives of various disciplines, 63 (1997) 233

Bird distributions

Impact of agricultural intensification of pastoral systems on bird distributions in Britain 1970-1990, 64 (1997) 19

Blackbirds

Economics of cattail (*Typha* spp.) control to reduce blackbird damage to sunflower, 65 (1997) 141

Botanical composition

Vegetation response to cattle grazing in the Ethiopian highlands, 64 (1997) 43

Bottom-up approach

Landscaping on a farm in northern Germany, a case study of conceptual and social fundaments for the development of an ecologically sound agro-landscape, 63 (1997) 173

Bracken

Moorland vegetation succession after the control of bracken with asulam, 62 (1997) 41

Brazil

Spatial economics of local demand for cattle products in Amazon development, 62 (1997) 1

Large area spatial variability of soil chemical properties in central Brazil, 66 (1997) 139

Busseola fusca

A systems approach to assess crop health and maize yield losses due to pests and diseases in Cameroon, 65 (1997) 33

Butterflies

Conservation headlands: effects on butterfly distribution and behaviour, 63 (1997) 31

Cabbage

Design and use of a time-sorting pitfall trap for predatory arthropods, 65 (1997) 15

Cabbages

Vegetation management in organic cabbages and pitfall catches of carabid beetles, 64 (1997) 267

Cadmium

Benchmark sites for assessing the chemical impacts of pastoral farming on loessial soils in southern New Zealand, 65 (1997) 267

Calves

Methane emissions from grazing sheep and calves, 66 (1997) 11

Cameroon

A systems approach to assess crop health and maize yield losses due to pests and diseases in Cameroon, 65 (1997) 33

Carbon dynamics in slash-and-burn agriculture and land use alternatives of the humid forest zone in Cameroon, 65 (1997) 245

Canada

Estimating shoot to root ratios and annual carbon inputs in soils for cereal crops, 63 (1997) 61

Subsidy removal and agroecosystem health, 64 (1997) 245

CAP (Common Agricultural Policy)

The policy approach to sustainable farming systems in the EU, 64 (1997) 103

Carabidae

Vegetation management in organic cabbages and pitfall catches of carabid beetles, 64 (1997) 267

Carabid beetles

Vegetation management in organic cabbages and pitfall catches of carabid beetles, 64 (1997) 267

Carabids

Design and use of a time-sorting pitfall trap for predatory arthropods, 65 (1997) 15

Carbohydrates

Labile soil carbon pools in subtropical forest and agricultural ecosystems as influenced by management practices and vegetation types, 65 (1997) 69

Carbon

Evolution of microbiological and chemical parameters during manure and straw co-composting in a drum composting system, 66 (1997) 19

Carbon accumulation

Effects of epigaeic macroarthropods on grass litter decomposition in mown meadow, 64 (1997) 53

Carbon dioxide

Methane fluxes following slurry applications to grassland soils: laboratory experiments, 63 (1997) 51

Interactive effects of elevated CO_2 and O_3 on rice and *flacca* tomato, 66 (1997) 1

Carbon dynamics

Carbon dynamics in slash-and-burn agriculture and land use alternatives of the humid forest zone in Cameroon, 65 (1997) 245

Carbon release

Effect of cultivar difference ('IR72', 'IR65598' and 'Dular') on methane emission, 62 (1997) 31

Carbon sequestration

Carbon dynamics in slash-and-burn agriculture and land use alternatives of the humid forest zone in Cameroon, 65 (1997) 245

Cassava

Multi-trophic interactions in cassava, *Manihot esculenta*, cropping systems in the subhumid tropics of West Africa, 66 (1997) 211

Cattail (*Typha* spp.) control

Economics of cattail (*Typha* spp.) control to reduce blackbird damage to sunflower, 65 (1997) 141

Cattle

Spatial economics of local demand for cattle products in Amazon development, 62 (1997) 1

Cattle grazing

Hydrologic response to cattle grazing in the Ethiopian highlands, 64 (1997) 33

Vegetation response to cattle grazing in the Ethiopian highlands, 64 (1997) 43

Nitrate leaching affected by management options with respect to urine-affected areas and groundwater levels for grazed grassland, 66 (1997) 197

Cattle manure

A simulated erosion approach to assess rates of cattle manure and phosphorus fertilizer for restoring productivity to eroded soils, 65 (1997) 113

Cereals

Estimating shoot to root ratios and annual carbon inputs in soils for cereal crops, 63 (1997) 61

Chemical fertilisers

Nitrate leaching from soils under a maize-wheat-maize sequence, two irrigation schedules and three types of fertilisers, 65 (1997) 189

Chernozem soil

Problems of estimating and maintaining biodiversity of soil biota in natural and agroecosystems: A case study of chernozem soil, 62 (1997) 127

Chilo orichalcociliellus

Reduction of stemborer damage by intercropping maize with cowpea, 62 (1997) 13

Chilo partellus

Reduction of stemborer damage by intercropping maize with cowpea, 62 (1997) 13

China

Biodiversity use and technical performance of freshwater fish aquaculture in different socioeconomic contexts: China and Italy, 62 (1997) 169

Conservation and augmentation of natural enemies in pest management of Chinese apple orchards, 62 (1997) 253

Cholinesterase

The impacts of molluscicide pellets on spring and autumn populations of wood mice *Apodemus sylvaticus*, 64 (1997) 211

Chromium uptake and translocation

A study on the uptake of trivalent and hexavalent chromium by paddy (*Oryza sativa*): possible chemical modifications in rhizosphere, 62 (1997) 53

Ciliophora

Protozoa as bioindicators in agroecosystems, with emphasis on farming practices, biocides, and biodiversity, 62 (1997) 93

Climatic index

Application of crop simulation modeling and GIS to agroclimatic assessment in Burkina Faso, 64 (1997) 233

C mineralization

Nutrient availability in soil samples from shifting cultivation sites in the semi-arid Caatinga of NE Brazil, 65 (1997) 177

CO₂ acclimation

Photosynthetic and growth responses of old and modern spring wheat cultivars to atmospheric CO₂ enrichment, 64 (1997) 65

Coefficient of transfer

Transfer characteristics and uptake of nickel by red clover grown on nickel amended alluvial soils of an arid zone, 65 (1997) 49

CO₂ enrichment

Photosynthetic and growth responses of old and modern spring wheat cultivars to atmospheric CO₂ enrichment, 64 (1997) 65

Community forestry

Indigenous exploitation and management of tropical forest resources: an evolutionary continuum in forest-people interactions, 63 (1997) 1

Compost

Effect of compost addition and crop rotation point upon VAM fungi, 65 (1997) 257

Calculating heavy metal accumulation in soil: a comparison of methods illustrated by a case-study on compost application, 66 (1997) 71

Concentration index

Transfer characteristics and uptake of nickel by red clover grown on nickel amended alluvial soils of an arid zone, 65 (1997) 49

Connectivity

Organic mixed farms in the landscape of a brook valley. How can a co-operative of organic mixed farms contribute to ecological and aesthetic qualities of a landscape?, 63 (1997) 121

Conservation headlands

Conservation headlands: effects on butterfly distribution and behaviour, 63 (1997) 31

Conventional-till agroecosystem

Labile soil carbon pools in subtropical forest and agricultural ecosystems as influenced by management practices and vegetation types, 65 (1997) 69

Corridors

Conservation headlands: effects on butterfly distribution and behaviour, 63 (1997) 31

Cost-benefit

Agricultural reuse of wastewater: nation-wide cost-benefit analysis, 66 (1997) 113

Cover cropping

Conservation and augmentation of natural enemies in pest management of Chinese apple orchards, 62 (1997) 253

Cover crops

Winter annual grass-legume bicultures for efficient nitrogen management in no-till corn, 65 (1997) 23

Crop disease diagnostic tests

The present and future use of technology to detect plant pathogens to guide disease control in sustainable farming systems, 64 (1997) 125

Crop diseases

A systems approach to assess crop health and maize yield losses due to pests and diseases in Cameroon, 65 (1997) 33

Crop diversity

The significance of biodiversity for sustaining agricultural production and role of women in the traditional sector: the Ethiopian experience, 62 (1997) 215

Crop growth

Application of crop simulation modeling and GIS to agroclimatic assessment in Burkina Faso, 64 (1997) 233

Crop-livestock system

The role of manure in the management of phosphorus resources at an Italian crop-livestock production farm, 66 (1997) 231

Crop phenology

Skylark (*Alauda arvensis*) utilisation of micro-habitats in spring barley fields, 62 (1997) 21

Cropping practices

Rehabilitation of a semiarid ecosystem in Senegal. Experiments at the hillside scale, 65 (1997) 95

Crop Protection

Crop protection and its integration within sustainable farming systems, 64 (1997) 87

Crop rotations

The nitrogen dynamics of 1-, 2- and 3-year stands of alfalfa in a cropping system, 64 (1997) 1

Cultivars

Photosynthetic and growth responses of old and modern spring wheat cultivars to atmospheric CO₂ enrichment, 64 (1997) 65

Cultivation

Carbon, nitrogen and phosphorus dynamics under continuous cultivation as influenced by farmyard manure and inorganic fertilizers in the savanna of northern Nigeria, 63 (1997) 17

Cultural control

The effect of the indigenous cultural practices of in-ground storage and piecemeal harvesting of sweetpotato on yield and quality losses caused by sweetpotato weevil in Uganda, 64 (1997) 191

Curculionidae

Influence of the immediate environment on the dispersal of *Sitona lineatus* L. (Col., Curc.) during crop colonisation, 64 (1997) 261

***Cylas* spp.**

The effect of the indigenous cultural practices of in-ground storage and piecemeal harvesting of sweetpotato on yield and quality losses caused by sweetpotato weevil in Uganda, 64 (1997) 191

Daily activity

Design and use of a time-sorting pitfall trap for predatory arthropods, 65 (1997) 15

Dairy slurry

Methane fluxes following slurry applications to grassland soils: laboratory experiments, 63 (1997) 51

Dayak forest management

Developing swidden agriculture and the threat of biodiversity loss, 62 (1997) 187

Decision-making

Agricultural reuse of wastewater: nation-wide cost-benefit analysis, 66 (1997) 113

Decision support

The role of decision support systems in integrated crop protection, 64 (1997) 157

Deforestation

Spatial economics of local demand for cattle products in Amazon development, 62 (1997) 1

Analysis of deforestation and economically sustainable farming systems under pressure of population growth and income constraints at the village level in Tanzania, 62 (1997) 59

Degradation

Porosity and herbicide leaching in soils amended with olive-mill wastewater, 65 (1997) 151

The influence of soil redox conditions on atrazine degradation in wetlands, 66 (1997) 41

Demographic pressure

Socioeconomic constraints to farming with biodiversity, 62 (1997) 145

Detection of plant pathogens

The present and future use of technology to detect plant pathogens to guide disease control in sustainable farming systems, 64 (1997) 125

Diffusion

Porosity and herbicide leaching in soils amended with olive-mill wastewater, 65 (1997) 151

Dimethoate

Comparative study of the signs of intoxication and changes in activity level of red-winged blackbirds (*Agelaius phoeniceus*) exposed to dimethoate, 64 (1997) 201

Diurnal patterns

Methane emissions from grazing sheep and calves, 66 (1997) 11

Domestication of landscapes

Indigenous exploitation and management of tropical forest resources: an evolutionary continuum in forest-people interactions, 63 (1997) 1

Eco-coherence

An interdisciplinary approach to integrate a range of agro-landscape values as proposed by representatives of various disciplines, 63 (1997) 233

Ecofarming

Protozoa as bioindicators in agroecosystems, with emphasis on farming practices, biocides, and biodiversity, 62 (1997) 93

Ecological agriculture

A landscape in transition: an historical perspective on a Spanish latifundist farm, 63 (1997) 91

The landscape as an ecosystem, 63 (1997) 221

Ecological succession

Ecological interpretation of weed flora dynamics under different tillage systems, 66 (1997) 177

Ecology

Landscaping on a farm in northern Germany, a case study of conceptual and social fundaments for the development of an ecologically sound agro-landscape, 63 (1997) 173

Economics

Research into and development of integrated farming systems for less-intensive arable crop production: experimental progress (1989-1994) and commercial implementation, 64 (1997) 141

Economics of cattail (*Typha* spp.) control to reduce blackbird damage to sunflower, 65 (1997) 141

Agricultural reuse of wastewater: nation-wide cost-benefit analysis, 66 (1997) 113

Economic sustainability

Analysis of deforestation and economically sustainable farming systems under pressure of population growth and income constraints at the village level in Tanzania, 62 (1997) 59

Economy

Assessing the economic consequences of sustainability in agriculture, 64 (1997) 95

Ecoregulation

Evaluation of fields and field margins in nature production capacity with special regard to plant protection, 63 (1997) 227

Ecosystem processes

Biodiversity as an organizing principle in agroecosystem management: Case studies of holistic resource management practitioners in the USA, 62 (1997) 199

Ecotoxicology

Mesostigmata (Gamasina, Uropodina), efficient predators in agroecosystems, 62 (1997) 105

Ecotypes

The potential of parasitoid strains in biological control: Observations to date on *Microctonus* spp. intraspecific variation in New Zealand, 64 (1997) 115

Ecuador

Estimates of sub-national nutrient balances as sustainability indicators for agro-ecosystems in Ecuador, 65 (1997) 127

Education

Approaches to integrated crop protection in university education and training, 64 (1997) 173

Efficient irrigation

Nitrate leaching from soils under a maize-wheat-maize sequence, two irrigation schedules and three types of fertilisers, 65 (1997) 189

Energy efficiency

Socioeconomic constraints to farming with biodiversity, 62 (1997) 145

Environment

Biodiversity use and technical performance of freshwater fish aquaculture in different socioeconomic contexts: China and Italy, 62 (1997) 169

Influence of the immediate environment on the dispersal of *Sitona lineatus* L. (Col., Curc.) during crop colonisation, 64 (1997) 261

Environmental indicators

SYNOPS 1.1: a model to assess and to compare the environmental risk potential of active ingredients in plant protection products, 64 (1997) 181

Epistemology of validation process

What does objectivity mean for analysis, valuation and implementation in agricultural landscape planning? A practical and epistemological approach to the search for sustainability in 'agriculture', 63 (1997) 133

Ethylenedurea (EDU)

Assessing effects of ambient ozone on injury and growth of *Trifolium subterraneum* at four rural sites in the Netherlands with ethylenedurea (EDU), 65 (1997) 79

European Union

The policy approach to sustainable farming systems in the EU, 64 (1997) 103

Eutrophication

Nutrient and metal content of water, sediment and soils amended with bauxite residue in the catchment of the Peel Inlet and Harvey Estuary, Western Australia, 64 (1997) 219

Evaluation

Biodiversity evaluation in agricultural landscapes: An approach at two different scales, 62 (1997) 81

Excreta

Nitrate leaching affected by management options with respect to urine-affected areas and groundwater levels for grazed grassland, 66 (1997) 197

Farmer and Consumers

Landscaping on a farm in northern Germany, a case study of conceptual and social fundaments for the development of an ecologically sound agro-landscape, 63 (1997) 173

Farm individuality

Nature and landscape development on organic farms, 63 (1997) 201

Farming system, conventional

Protozoa as bioindicators in agroecosystems, with emphasis on farming practices, biocides, and biodiversity, 62 (1997) 93

Farming systems

Analysis of deforestation and economically sustainable farming systems under pressure of population growth and income constraints at the village level in Tanzania, 62 (1997) 59

The policy approach to sustainable farming systems in the EU, 64 (1997) 103

The effects of organic farming on pest and non-pest butterfly abundance, 64 (1997) 133

Farm systems

Assessing the economic consequences of sustainability in agriculture, 64 (1997) 95

Farmyard manure

Carbon, nitrogen and phosphorus dynamics under continuous cultivation as influenced by farmyard manure and inorganic fertilizers in the savanna of northern Nigeria, 63 (1997) 17

Fertiliser application

Site specific fertiliser application for potato production and effects on N-leaching using dynamic simulation modelling, 66 (1997) 165

Field margins

Conservation headlands: effects on butterfly distribution and behaviour, 63 (1997) 31

The effects of organic farming on pest and non-pest butterfly abundance, 64 (1997) 133

Arable flora in sprayed and unsprayed crop edges, 66 (1997) 223

Flight

Influence of the immediate environment on the dispersal of *Sitona lineatus* L. (Col., Curc.) during crop colonisation, 64 (1997) 261

Floral analysis

Ecological interpretation of weed flora dynamics under different tillage systems, 66 (1997) 177

Flyspeck

Disease-management components of advanced integrated pest management in apple orchards, 66 (1997) 31

Forest management

Indigenous exploitation and management of tropical forest resources: an evolutionary continuum in forest-people interactions, 63 (1997) 1

Forest margins

Carbon dynamics in slash-and-burn agriculture and land use alternatives of the humid forest zone in Cameroon, 65 (1997) 245

Forest use dynamics

Indigenous exploitation and management of tropical forest resources: an evolutionary continuum in forest-people interactions, 63 (1997) 1

Freshwater fisheries

Biodiversity use and technical performance of freshwater fish aquaculture in different socioeconomic contexts: China and Italy, 62 (1997) 169

Functional diversity

Impact of sewage sludge application on soil biological characteristics, 66 (1997) 241

Functional groups

Maintaining spider biodiversity in agroecosystems as a tool in pest control, 62 (1997) 229

Fungicides

Disease-management components of advanced integrated pest management in apple orchards, 66 (1997) 31

Gamasina

Mesostigmata (Gamasina, Uropodina), efficient predators in agroecosystems, 62 (1997) 105

Gaseous pollutants

Responses of *Agrostis capillaris* to gaseous pollutants and wet nitrogen deposition, 66 (1997) 89

Genetic diversity

The potential of parasitoid strains in biological control: Observations to date on *Microctonus* spp. intraspecific variation in New Zealand, 64 (1997) 115

Genetic manipulation

Developing sustainable pest control from chemical ecology, 64 (1997) 149

Genetic saturation

Problems of estimating and maintaining biodiversity of soil biota in natural and agroecosystems: A case study of chernozem soil, 62 (1997) 127

GIS

Application of crop simulation modeling and GIS to agroclimatic assessment in Burkina Faso, 64 (1997) 233

Glyphosate

Economics of cattail (*Typha* spp.) control to reduce blackbird damage to sunflower, 65 (1997) 141

Goat farm

Some criteria for landscape quality applied on an organic goat farm in Gelderland, the Netherlands, 63 (1997) 185

Goethean-phenomenological approach

Nature and landscape development on organic farms, 63 (1997) 201

Goethean science

An exploration into the use of Goethean science as a methodology for landscape assessment: the Pishwanton Project, 63 (1997) 145

Graminoid

Effects of herbivory on the production ecology of the perennial grass *Leptothrix senegalense* (Kunth.) in the arid lands of Northern Kenya, 66 (1997) 101

Grass / clover residues

Recovery of N derived from ¹⁵N-labelled grass/clover residues, recently immobilised urine ¹⁵N or native soil organic N by a wheat crop following cultivation of a pasture soil, 63 (1997) 67

Grasses

Responses of *Agrostis capillaris* to gaseous pollutants and wet nitrogen deposition, 66 (1997) 89

Grassland

Methane fluxes following slurry applications to grassland soils: laboratory experiments, 63 (1997) 51

Grass-legume

Winter annual grass-legume bicultures for efficient nitrogen management in no-till corn, 65 (1997) 23

Grazing

Moorland vegetation succession after the control of bracken with asulam, 62 (1997) 41

Effects of herbivory on the production ecology of the perennial grass *Leptothrix senegalense* (Kunth.) in the arid lands of Northern Kenya, 66 (1997) 101

Grazing behaviour

Methane emissions from grazing sheep and calves, 66 (1997) 11

Greece

Nutrient release from decomposing *Lotus corniculatus* residues in relation to soil pH and nitrogen levels, 65 (1997) 107

Green manure

The nitrogen dynamics of 1-, 2- and 3-year stands of alfalfa in a cropping system, 64 (1997) 1

Growth

Assessing effects of ambient ozone on injury and growth of *Trifolium subterraneum* at four rural sites in the Netherlands with ethylenedurea (EDU), 65 (1997) 79

Responses of *Agrostis capillaris* to gaseous pollutants and wet nitrogen deposition, 66 (1997) 89

Growth analysis

Photosynthetic and growth responses of old and modern spring wheat cultivars to atmospheric CO₂ enrichment, 64 (1997) 65

Habitat evaluation

Evaluation of fields and field margins in nature production capacity with special regard to plant protection, 63 (1997) 227

Habitat preference

Skylark (*Alauda arvensis*) utilisation of micro-habitats in spring barley fields, 62 (1997) 21

Habitat restoration

Moorland vegetation succession after the control of bracken with asulam, 62 (1997) 41

Heavy metal flows

Calculating heavy metal accumulation in soil: a comparison of methods illustrated by a case-study on compost application, 66 (1997) 71

Heavy metals

Nutrient and metal content of water, sediment and soils amended with bauxite residue in the catchment of the Peel Inlet and Harvey Estuary, Western Australia, 64 (1997) 219

Hedgerow

Weed seed loss due to predation in Michigan maize fields, 66 (1997) 189

Hedgerows

Conservation headlands: effects on butterfly distribution and behaviour, 63 (1997) 31

Herbicide

Moorland vegetation succession after the control of bracken with asulam, 62 (1997) 41

Porosity and herbicide leaching in soils amended with olive-mill wastewater, 65 (1997) 151

The influence of soil redox conditions on atrazine degradation in wetlands, 66 (1997) 41

Hierarchy theory

Socioeconomic pressure, demographic pressure, environmental loading and technological changes in agriculture, 65 (1997) 201

History

A landscape in transition: an historical perspective on a Spanish latifundist farm, 63 (1997) 91

Holistic Resource Management

Biodiversity as an organizing principle in agroecosystem management: Case studies of holistic resource management practitioners in the USA, 62 (1997) 199

Human disturbance

Orthopteran assemblages as indicators of grassland naturalness in Hungary, 66 (1997) 121

Human(e) development

An interdisciplinary approach to integrate a range of agro-landscape values as proposed by representatives of various disciplines, 63 (1997) 233

Hungary

Evaluation of fields and field margins in nature production capacity with special regard to plant protection, 63 (1997) 227

Orthopteran assemblages as indicators of grassland naturalness in Hungary, 66 (1997) 121

Hydrologic response

Hydrologic response to cattle grazing in the Ethiopian highlands, 64 (1997) 33

Identity

Nature and landscape development on organic farms, 63 (1997) 201

Incense

Natural resin association such as incense and propolis in zootechnology, 62 (1997) 247

Income constraints

Analysis of deforestation and economically sustainable farming systems under pressure of population growth and income constraints at the village level in Tanzania, 62 (1997) 59

Indication

Orthopteran assemblages as indicators of grassland naturalness in Hungary, 66 (1997) 121

Indonesia

Developing swidden agriculture and the threat of biodiversity loss, 62 (1997) 187

Infiltration

Hydrologic response to cattle grazing in the Ethiopian highlands, 64 (1997) 33

Injury

Assessing effects of ambient ozone on injury and growth of *Trifolium subterraneum* at four rural sites in the Netherlands with ethylenedurea (EDU), 65 (1997) 79

Inorganic fertilizers

Carbon, nitrogen and phosphorus dynamics under continuous cultivation as influenced by farmyard manure and inorganic fertilizers in the savanna of northern Nigeria, 63 (1997) 17

Integrated Crop Protection

Crop protection and its integration within sustainable farming systems, 64 (1997) 87

Integrated crop protection

The role of decision support systems in integrated crop protection, 64 (1997) 157

Integrated Crop Protection

A review of the use of models of weed control in Integrated Crop Protection, 64 (1997) 165

Integrated crop protection

Approaches to integrated crop protection in university education and training, 64 (1997) 173

Integrated farming systems

Research into and development of integrated farming systems for less-intensive arable crop production: experimental progress (1989-1994) and commercial implementation, 64 (1997) 141

Integrated pest management

Developing sustainable pest control from chemical ecology, 64 (1997) 149

Intensification

Impact of agricultural intensification of pastoral systems on bird distributions in Britain 1970-1990, 64 (1997) 19

Intercropping

Vegetation management in organic cabbages and pitfall catches of carabid beetles, 64 (1997) 267

Intraspecific variation

The potential of parasitoid strains in biological control: Observations to date on *Microctonus* spp. intraspecific variation in New Zealand, 64 (1997) 115

Invertebrates

Biodiversity evaluation in agricultural landscapes: An approach at two different scales, 62 (1997) 81

IPM

Disease-management components of advanced integrated pest management in apple orchards, 66 (1997) 31

Italy

Biodiversity use and technical performance of freshwater fish aquaculture in different socioeconomic contexts: China and Italy, 62 (1997) 169

The role of manure in the management of phosphorus resources at an Italian crop-livestock production farm, 66 (1997) 231

Labile carbon pools

Labile soil carbon pools in subtropical forest and agricultural ecosystems as influenced by management practices and vegetation types, 65 (1997) 69

Labor productivity

Socioeconomic constraints to farming with biodiversity, 62 (1997) 145

Labour

Biodiversity use and technical performance of freshwater fish aquaculture in different socioeconomic contexts: China and Italy, 62 (1997) 169

Land labourers

A landscape in transition: an historical perspective on a Spanish latifundist farm, 63 (1997) 91

Landraces

The significance of biodiversity for sustaining agricultural production and role of women in the traditional sector: the Ethiopian experience, 62 (1997) 215

Landscape

A landscape in transition: an historical perspective on a Spanish latifundist farm, 63 (1997) 91

Landscape and nature production capacity of organic types of agriculture: examples of organic farms in two Tuscan landscapes, 63 (1997) 159

Population dynamics of fossorial water vole (*Arvicola terrestris scherman*): a land use and landscape perspective, 66 (1997) 47

Landscape aesthetics

An interdisciplinary approach to integrate a range of agro-landscape values as proposed by representatives of various disciplines, 63 (1997) 233

Landscape architecture

Organic mixed farms in the landscape of a brook valley. How can a co-operative of organic mixed farms contribute to ecological and aesthetic qualities of a landscape?, 63 (1997) 121

Landscape assessment

An exploration into the use of Goethean science as a methodology for landscape assessment: the Pishwanton Project, 63 (1997) 145

Landscape development

An interdisciplinary approach to integrate a range of agro-landscape values as proposed by representatives of various disciplines, 63 (1997) 233

Landscape diversity

Organic mixed farms in the landscape of a brook valley. How can a co-operative of organic mixed farms contribute to ecological and aesthetic qualities of a landscape?, 63 (1997) 121

Landscape-ecosystem

The landscape as an ecosystem, 63 (1997) 221

Landscape ethics

An interdisciplinary approach to integrate a range of agro-landscape values as proposed by representatives of various disciplines, 63 (1997) 233

Landscape identity

An interdisciplinary approach to integrate a range of agro-landscape values as proposed by representatives of various disciplines, 63 (1997) 233

Landscape quality

Some criteria for landscape quality applied on an organic goat farm in Gelderland, the Netherlands, 63 (1997) 185

Landscape structure

Weed seed loss due to predation in Michigan maize fields, 66 (1997) 189

Landscape validation

An interdisciplinary approach to integrate a range of agro-landscape values as proposed by representatives of various disciplines, 63 (1997) 233

Land use

Impact of agricultural intensification of pastoral systems on bird distributions in Britain 1970-1990, 64 (1997) 19

Estimates of sub-national nutrient balances as sustainability indicators for agro-ecosystems in Ecuador, 65 (1997) 127

Population dynamics of fossorial water vole (*Arvicola terrestris scherman*): a land use and landscape perspective, 66 (1997) 47

Land use alternatives

Carbon dynamics in slash-and-burn agriculture and land use alternatives of the humid forest zone in Cameroon, 65 (1997) 245

Leaching

Porosity and herbicide leaching in soils amended with olive-mill wastewater, 65 (1997) 151

Leave nutrient

Multi-trophic interactions in cassava, *Manihot esculenta*, cropping systems in the subhumid tropics of West Africa, 66 (1997) 211

Legume cultivation

Some unorthodox perspectives on agricultural biodiversity. The case of legume cultivation, 62 (1997) 135

Leitbild (guiding model)

What does objectivity mean for analysis, valuation and implementation in agricultural landscape planning? A practical and

epistemological approach to the search for sustainability in 'agriculture', 63 (1997) 133

Leptothrix senegalense

Effects of herbivory on the production ecology of the perennial grass *Leptothrix senegalense* (Kunth.) in the arid lands of Northern Kenya, 66 (1997) 101

Less-intensive crop production

Research into and development of integrated farming systems for less-intensive arable crop production: experimental progress (1989-1994) and commercial implementation, 64 (1997) 141

Life-forms

Ecological interpretation of weed flora dynamics under different tillage systems, 66 (1997) 177

Linyphiids

Design and use of a time-sorting pitfall trap for predatory arthropods, 65 (1997) 15

Litter decomposition

Effects of epigaeic macroarthropods on grass litter decomposition in mown meadow, 64 (1997) 53

Nutrient release from decomposing *Lotus corniculatus* residues in relation to soil pH and nitrogen levels, 65 (1997) 107

Livestock phosphorus balance

The role of manure in the management of phosphorus resources at an Italian crop-livestock production farm, 66 (1997) 231

Local commitment

Local commitment for sustainable rural landscape development, 63 (1997) 107

Locomotory activity

Effects of epigaeic macroarthropods on grass litter decomposition in mown meadow, 64 (1997) 53

Lotus corniculatus

Nutrient release from decomposing *Lotus corniculatus* residues in relation to soil pH and nitrogen levels, 65 (1997) 107

***Lycopersicon esculentum* Mill**

Interactive effects of elevated CO₂ and O₃ on rice and *flacca* tomato, 66 (1997) 1

Maize

A systems approach to assess crop health and maize yield losses due to pests and diseases in Cameroon, 65 (1997) 33

Manure

Effect of compost addition and crop rotation point upon VAM fungi, 65 (1997) 257

Manure compost

Evolution of microbiological and chemical parameters during manure and straw co-composting in a drum composting system, 66 (1997) 19

Manure management

The role of manure in the management of phosphorus resources at an Italian crop-livestock production farm, 66 (1997) 231

Mapping

Application of crop simulation modeling and GIS to agroclimatic assessment in Burkina Faso, 64 (1997) 233

Mathematical modelling

A review of the use of models of weed control in Integrated Crop Protection, 64 (1997) 165

Medicago sativa

The nitrogen dynamics of 1-, 2- and 3-year stands of alfalfa in a cropping system, 64 (1997) 1

Mediterranean

A landscape in transition: an historical perspective on a Spanish latifundist farm, 63 (1997) 91

Mesostigmata

Mesostigmata (Gamasina, Uropodina), efficient predators in agroecosystems, 62 (1997) 105

Methane

Methane fluxes following slurry applications to grassland soils: laboratory experiments, 63 (1997) 51

Methane emissions from grazing sheep and calves, 66 (1997) 11

Methane emission

Effect of cultivar difference ('IR72', 'IR65598' and 'Dular') on methane emission, 62 (1997) 31

Methiocarb

The impacts of molluscicide pellets on spring and autumn populations of wood mice *Apodemus sylvaticus*, 64 (1997) 211

Methodology

An exploration into the use of Goethean science as a methodology for landscape assessment: the Fishwanton Project, 63 (1997) 145

Some criteria for landscape quality applied on an organic goat farm in Gelderland, the Netherlands, 63 (1997) 185

Microbes

The influence of some pesticides on soil microbial flora in relation to changes in nutrient level, rock phosphate solubilization and P release under laboratory conditions, 65 (1997) 59

Microbial diversity

Microbial diversity and application of microbial products for agricultural purposes in China, 62 (1997) 237

Microcosm

The influence of soil redox conditions on atrazine degradation in wetlands, 66 (1997) 41

Microtus arvalis

Population dynamics of fossorial water vole (*Arvicola terrestris scherman*): a land use and landscape perspective, 66 (1997) 47

Migration

Influence of the immediate environment on the dispersal of *Sitona lineatus* L. (Col., Curc.) during crop colonisation, 64 (1997) 261

Millet

Application of crop simulation modeling and GIS to agroclimatic assessment in Burkina Faso, 64 (1997) 233

Mosaic landscape

Biodiversity evaluation in agricultural landscapes: An approach at two different scales, 62 (1997) 81

MOW compost

Nitrate leaching from soils under a maize-wheat-maize sequence, two irrigation schedules and three types of fertilisers, 65 (1997) 189

Mulch nutrient

Multi-trophic interactions in cassava, *Manihot esculenta*, cropping systems in the subhumid tropics of West Africa, 66 (1997) 211

Multicriteria analysis

Socioeconomic pressure, demographic pressure, environmental loading and technological changes in agriculture, 65 (1997) 201

Multiple regression model

Reduction of stemborer damage by intercropping maize with cowpea, 62 (1997) 13

¹⁵N

Recovery of N derived from ¹⁵N-labelled grass/clover residues, recently immobilised urine ¹⁵N or native soil organic N by a wheat crop following cultivation of a pasture soil, 63 (1997) 67

Nature and landscape development

Nature and landscape development on organic farms, 63 (1997) 201

Net primary production

Vegetation response to cattle grazing in the Ethiopian highlands, 64 (1997) 43

New Zealand

Subsidy removal and agroecosystem health, 64 (1997) 245

N₂ fixation

The nitrogen dynamics of 1-, 2- and 3-year stands of alfalfa in a cropping system, 64 (1997) 1

Nickel

The danger of cumulation of nickel in cereals on contaminated soil, 63 (1997) 25

Transfer characteristics and uptake of nickel by red clover grown on nickel amended alluvial soils of an arid zone, 65 (1997) 49

Ni concentration in the biomass

The danger of cumulation of nickel in cereals on contaminated soil, 63 (1997) 25

Nitrate concentrations

Nitrate leaching affected by management options with respect to urine-affected areas and groundwater levels for grazed grassland, 66 (1997) 197

Nitrate leaching

Nitrate leaching from soils under a maize-wheat-maize sequence, two irrigation schedules and three types of fertilisers, 65 (1997) 189

Nitrogen

Evolution of microbiological and chemical parameters during manure and straw co-composting in a drum composting system, 66 (1997) 19

Nitrogen budgets

The nitrogen dynamics of 1-, 2- and 3-year stands of alfalfa in a cropping system, 64 (1997) 1

Nitrogen cycling

Winter annual grass-legume bicultures for efficient nitrogen management in no-till corn, 65 (1997) 23

Nitrogen dioxide

Responses of *Agrostis capillaris* to gaseous pollutants and wet nitrogen deposition, 66 (1997) 89

Nitrogen mineralisation-immobilisation

Recovery of N derived from ^{15}N -labelled grass/clover residues, recently immobilised urine ^{15}N or native soil organic N by a wheat crop following cultivation of a pasture soil, 63 (1997) 67

Nitrogen source

Transfer characteristics and uptake of nickel by red clover grown on nickel amended alluvial soils of an arid zone, 65 (1997) 49

N-leaching

Site specific fertiliser application for potato production and effects on N-leaching using dynamic simulation modelling, 66 (1997) 165

N mineralization

Nutrient availability in soil samples from shifting cultivation sites in the semi-arid Caatinga of NE Brazil, 65 (1997) 177

Nodulation

Evaluation of phosphorus uptake and use efficiency and nitrogen fixation potential by African clovers, 65 (1997) 169

Non-target species

Comparative study of the signs of intoxication and changes in activity level of red-winged blackbirds (*Agelaius phoeniceus*) exposed to dimethoate, 64 (1997) 201

Northern Kenya

Effects of herbivory on the production ecology of the perennial grass *Leptothrix senegalense* (Kunth.) in the arid lands of Northern Kenya, 66 (1997) 101

No-till agroecosystem

Labile soil carbon pools in subtropical forest and agricultural ecosystems as influenced by management practices and vegetation types, 65 (1997) 69

N use efficiency

Evaluation of phosphorus uptake and use efficiency and nitrogen fixation potential by African clovers, 65 (1997) 169

Nutrient balance

Carbon, nitrogen and phosphorus dynamics under continuous cultivation as influenced by farmyard manure and inorganic fertilizers in the savanna of northern Nigeria, 63 (1997) 17

Nutrient balances

Estimates of sub-national nutrient balances as sustainability indicators for agro-ecosystems in Ecuador, 65 (1997) 127

Nutrient dynamics

Nutrient release from decomposing *Lotus corniculatus* residues in relation to soil pH and nitrogen levels, 65 (1997) 107

Dynamic of soil chemical parameters in shifting agriculture in the Eastern Amazon, 66 (1997) 153

Nutrients

The influence of some pesticides on soil microbial flora in relation to changes in nutrient level, rock phosphate solubilization and P release under laboratory conditions, 65 (1997) 59

Oats

The danger of cumulation of nickel in cereals on contaminated soil, 63 (1997) 25

Orchards

Maintaining spider biodiversity in agroecosystems as a tool in pest control, 62 (1997) 229

Organic (biodynamic) agriculture

Nature and landscape development on organic farms, 63 (1997) 201

Organic farm

Landscape and nature production capacity of organic types of agriculture: examples of organic farms in two Tuscan landscapes, 63 (1997) 159

Organic farming

Some criteria for landscape quality applied on an organic goat farm in Gelderland, the Netherlands, 63 (1997) 185

Organic matter

Carbon, nitrogen and phosphorus dynamics under continuous cultivation as influenced by farmyard manure and inorganic fertilizers in the savanna of northern Nigeria, 63 (1997) 17

Porosity and herbicide leaching in soils amended with olive-mill wastewater, 65 (1997) 151

Organic mixed farms

Organic mixed farms in the landscape of a brook valley. How can a co-operative of organic mixed farms contribute to ecological and aesthetic qualities of a landscape?, 63 (1997) 121

Organic residue

Porosity and herbicide leaching in soils amended with olive-mill wastewater, 65 (1997) 151

Organic waste

Microbial diversity and application of microbial products for agricultural purposes in China, 62 (1997) 237

Organophosphorus insecticides

Comparative study of the signs of intoxication and changes in activity level of red-winged blackbirds (*Agelaius phoeniceus*) exposed to dimethoate, 64 (1997) 201

Orientation

Influence of the immediate environment on the dispersal of *Sitona lineatus* L. (Col., Curc.) during crop colonisation, 64 (1997) 261

Orthopteran communities

Orthopteran assemblages as indicators of grassland naturalness in Hungary, 66 (1997) 121

***Oryza sativa* L.**

Interactive effects of elevated CO₂ and O₃ on rice and *flacca* tomato, 66 (1997) 1

Outbreak

Population dynamics of fossorial water vole (*Arvicola terrestris scherman*): a land use and landscape perspective, 66 (1997) 47

Oxidation-reduction

A study on the uptake of trivalent and hexavalent chromium by paddy (*Oryza sativa*): possible chemical modifications in rhizosphere, 62 (1997) 53

Oxisol

Nutrient availability in soil samples from shifting cultivation sites in the semi-arid Caatinga of NE Brazil, 65 (1997) 177

Ozone

Assessing effects of ambient ozone on injury and growth of *Trifolium subterraneum* at four rural sites in the Netherlands with ethylenediucrea (EDU), 65 (1997) 79

Interactive effects of elevated CO₂ and O₃ on rice and *flacca* tomato, 66 (1997) 1

Paddy

A study on the uptake of trivalent and hexavalent chromium by paddy (*Oryza sativa*): possible chemical modifications in rhizosphere, 62 (1997) 53

Paired watershed technique

Rehabilitation of a semiarid ecosystem in Senegal. Experiments at the hillside scale, 65 (1997) 95

Parasitoids

Developing sustainable pest control from chemical ecology, 64 (1997) 149

Participation

Landscaping on a farm in northern Germany, a case study of conceptual and social fundaments for the development of an ecologically sound agro-landscape, 63 (1997) 173

Participation and responsibility

Local commitment for sustainable rural landscape development, 63 (1997) 107

Participative landscape planning

What does objectivity mean for analysis, valuation and implementation in agricultural landscape planning? A practical and epistemological approach to the search for sustainability in 'agriculture', 63 (1997) 133

Pasture

Benchmark sites for assessing the chemical impacts of pastoral farming on loessial soils in southern New Zealand, 65 (1997) 267

Pastures

Nitrate leaching affected by management options with respect to urine-affected areas and groundwater levels for grazed grassland, 66 (1997) 197

Perennial

Effects of herbivory on the production ecology of the perennial grass *Leptothrix senegalense* (Kunth.) in the arid lands of Northern Kenya, 66 (1997) 101

Periodicity types

Ecological interpretation of weed flora dynamics under different tillage systems, 66 (1997) 177

Pesticides

Conservation headlands: effects on butterfly distribution and behaviour, 63 (1997) 31

SYNOPS 1.1: a model to assess and to compare the environmental risk potential of active ingredients in plant protection products, 64 (1997) 181

Comparative study of the signs of intoxication and changes in activity level of red-winged blackbirds (*Agelaius phoeniceus*) exposed to dimethoate, 64 (1997) 201

The influence of some pesticides on soil microbial flora in relation to changes in nutrient level, rock phosphate solubilization and P release under laboratory conditions, 65 (1997) 59

Arable flora in sprayed and unsprayed crop edges, 66 (1997) 223

Pests

Maintaining spider biodiversity in agroecosystems as a tool in pest control, 62 (1997) 229

Phenacoccus manihoti

Multi-trophic interactions in cassava, *Manihot esculenta*, cropping systems in the subhumid tropics of West Africa, 66 (1997) 211

Phosphorus

Nutrient and metal content of water, sediment and soils amended with bauxite residue in the catchment of the Peel Inlet and Harvey Estuary, Western Australia, 64 (1997) 219

A simulated erosion approach to assess rates of cattle manure and phosphorus fertilizer for restoring productivity to eroded soils, 65 (1997) 113

Benchmark sites for assessing the chemical impacts of pastoral farming on loessial soils in southern New Zealand, 65 (1997) 267

Evolution of microbiological and chemical parameters during manure and straw co-composting in a drum composting system, 66 (1997) 19

Pieris brassicae

The effects of organic farming on pest and non-pest butterfly abundance, 64 (1997) 133

Pieris rapae

The effects of organic farming on pest and non-pest butterfly abundance, 64 (1997) 133

Pig slurry

Methane fluxes following slurry applications to grassland soils: laboratory experiments, 63 (1997) 51

Pitfall traps

Design and use of a time-sorting pitfall trap for predatory arthropods, 65 (1997) 15

Plantago

Effects of sulphadimethoxine on cosmopolitan weeds (*Amaranthus retroflexus* L., *Plantago major* L. and *Rumex acetosella* L.), 65 (1997) 163

Plant biodiversity

Biodiversity as an organizing principle in agroecosystem management: Case studies of holistic resource management practitioners in the USA, 62 (1997) 199

Plant breeding

Photosynthetic and growth responses of old and modern spring wheat cultivars to atmospheric CO₂ enrichment, 64 (1997) 65

Plant protection

Evaluation of fields and field margins in nature production capacity with special regard to plant protection, 63 (1997) 227

Population growth

Analysis of deforestation and economically sustainable farming systems under pressure of population growth and income constraints at the village level in Tanzania, 62 (1997) 59

Populations

The impacts of molluscicide pellets on spring and autumn populations of wood mice *Apodemus sylvaticus*, 64 (1997) 211

Potassium

Large area spatial variability of soil chemical properties in central Brazil, 66 (1997) 139

Potato production

Site specific fertiliser application for potato production and effects on N-leaching using dynamic simulation modelling, 66 (1997) 165

Preceding crop

Effect of compost addition and crop rotation point upon VAM fungi, 65 (1997) 257

Predator

Maintaining spider biodiversity in agroecosystems as a tool in pest control, 62 (1997) 229

Predators

Conservation and augmentation of natural enemies in pest management of Chinese apple orchards, 62 (1997) 253

Predictive model

Disease-management components of advanced integrated pest management in apple orchards, 66 (1997) 31

Principle of subsidiary regulations

What does objectivity mean for analysis, valuation and implementation in agricultural landscape planning? A practical and epistemological approach to the search for sustainability in 'agriculture', 63 (1997) 133

Productivity

Biodiversity use and technical performance of freshwater fish aquaculture in different socioeconomic contexts: China and Italy, 62 (1997) 169

Profitability

Biodiversity as an organizing principle in agroecosystem management: Case studies of holistic resource management practitioners in the USA, 62 (1997) 199

Propolis

Natural resin association such as incense and propolis in zootechnology, 62 (1997) 247

P use efficiency

Evaluation of phosphorus uptake and use efficiency and nitrogen fixation potential by African clovers, 65 (1997) 169

Push-pull

Developing sustainable pest control from chemical ecology, 64 (1997) 149

Qualitative research

Biodiversity as an organizing principle in agroecosystem management: Case studies of holistic resource management practitioners in the USA, 62 (1997) 199

Radio-telemetry

Skylark (*Alauda arvensis*) utilisation of micro-habitats in spring barley fields, 62 (1997) 21

Red clover

Transfer characteristics and uptake of nickel by red clover grown on nickel amended alluvial soils of an arid zone, 65 (1997) 49

Redox potential

The influence of soil redox conditions on atrazine degradation in wetlands, 66 (1997) 41

Reduced agrochemical inputs

Research into and development of integrated farming systems for less-intensive arable crop production: experimental progress (1989-1994) and commercial implementation, 64 (1997) 141

Regional autonomy

The landscape as an ecosystem, 63 (1997) 221

Regionally adapted solutions

What does objectivity mean for analysis, valuation and implementation in agricultural landscape planning? A practical and epistemological approach to the search for sustainability in 'agriculture', 63 (1997) 133

Rendille

Effects of herbivory on the production ecology of the perennial grass *Leptothrix senegalense* (Kunth.) in the arid lands of Northern Kenya, 66 (1997) 101

Reserves

Benchmark sites for assessing the chemical impacts of pastoral farming on loessial soils in southern New Zealand, 65 (1997) 267

Resource efficiency

An interdisciplinary approach to integrate a range of agro-landscape values as proposed by representatives of various disciplines, 63 (1997) 233

Rhizosphere chemistry

A study on the uptake of trivalent and hexavalent chromium by paddy (*Oryza sativa*): possible chemical modifications in rhizosphere, 62 (1997) 53

Rice cultivar

Effect of cultivar difference ('IR72', 'IR65598' and 'Dular') on methane emission, 62 (1997) 31

Risk assessment model

SYNOPS 1.1: a model to assess and to compare the environmental risk potential of active ingredients in plant protection products, 64 (1997) 181

Rodents

Population dynamics of fossorial water vole (*Arvicola terrestris scherman*): a land use and landscape perspective, 66 (1997) 47

Root biomass

Estimating shoot to root ratios and annual carbon inputs in soils for cereal crops, 63 (1997) 61

Rumex

Effects of sulphadimethoxine on cosmopolitan weeds (*Amaranthus retroflexus* L., *Plantago major* L. and *Rumex acetosella* L.), 65 (1997) 163

Runoff

Hydrologic response to cattle grazing in the Ethiopian highlands, 64 (1997) 33

Rehabilitation of a semiarid ecosystem in Senegal. Experiments at the hillside scale, 65 (1997) 95

Rural

Assessing the economic consequences of sustainability in agriculture, 64 (1997) 95

Rural development

An interdisciplinary approach to integrate a range of agro-landscape values as proposed by representatives of various disciplines, 63 (1997) 233

Rural landscapes

Some criteria for landscape quality applied on an organic goat farm in Gelderland, the Netherlands, 63 (1997) 185

Sahel

Application of crop simulation modeling and GIS to agroclimatic assessment in Burkina Faso, 64 (1997) 233

Sand and soil culture

A study on the uptake of trivalent and hexavalent chromium by paddy (*Oryza sativa*): possible chemical modifications in rhizosphere, 62 (1997) 53

Savanna

Carbon, nitrogen and phosphorus dynamics under continuous cultivation as influenced by farmyard manure and inorganic fertilizers in the savanna of northern Nigeria, 63 (1997) 17

Schizothyrium pomi

Disease-management components of advanced integrated pest management in apple orchards, 66 (1997) 31

Seed dispersal types

Ecological interpretation of weed flora dynamics under different tillage systems, 66 (1997) 177

Semi-natural vegetation

Responses of *Agrostis capillaris* to gaseous pollutants and wet nitrogen deposition, 66 (1997) 89

Semiochemicals

Developing sustainable pest control from chemical ecology, 64 (1997) 149

Senegal

Rehabilitation of a semiarid ecosystem in Senegal. Experiments at the hillside scale, 65 (1997) 95

Sesamia calamistis

Reduction of stemborer damage by intercropping maize with cowpea, 62 (1997) 13

Sewage

Impact of sewage sludge application on soil biological characteristics, 66 (1997) 241

Sheep

Methane emissions from grazing sheep and calves, 66 (1997) 11

Shifting cultivation

Dynamic of soil chemical parameters in shifting agriculture in the Eastern Amazon, 66 (1997) 153

Simulation modelling

Site specific fertiliser application for potato production and effects on N-leaching using dynamic simulation modelling, 66 (1997) 165

Nitrate leaching affected by management options with respect to urine-affected areas and groundwater levels for grazed grassland, 66 (1997) 197

Site specific management

Site specific fertiliser application for potato production and effects on N-leaching using dynamic simulation modelling, 66 (1997) 165

Sitona lineatus

Influence of the immediate environment on the dispersal of *Sitona lineatus* L. (Col., Curc.) during crop colonisation, 64 (1997) 261

Skylark *Alauda arvensis*

Skylark (*Alauda arvensis*) utilisation of micro-habitats in spring barley fields, 62 (1997) 21

Slash-and-burn agriculture

Carbon dynamics in slash-and-burn agriculture and land use alternatives of the humid forest zone in Cameroon, 65 (1997) 245

Sludge

Impact of sewage sludge application on soil biological characteristics, 66 (1997) 241

Sludge application on soil

Effects of sulphadimethoxine on cosmopolitan weeds (*Amaranthus retroflexus* L., *Plantago major* L. and *Rumex acetosella* L.), 65 (1997) 163

Slurry

Microbial diversity and application of microbial products for agricultural purposes in China, 62 (1997) 237

Social reproduction of landscape qualities

Local commitment for sustainable rural landscape development, 63 (1997) 107

Soil

The influence of some pesticides on soil microbial flora in relation to changes in nutrient level, rock phosphate solubilization and P release under laboratory conditions, 65 (1997) 59

Soil amendment

Porosity and herbicide leaching in soils amended with olive-mill wastewater, 65 (1997) 151

Soil animals

Studies on soil animals in subtropical China, 62 (1997) 119

Soil biology

Impact of sewage sludge application on soil biological characteristics, 66 (1997) 241

Soil biota

Problems of estimating and maintaining biodiversity of soil biota in natural and agroecosystems: A case study of chernozem soil, 62 (1997) 127

Effects of epigeic macroarthropods on grass litter decomposition in mown meadow, 64 (1997) 53

Soil chemistry

Benchmark sites for assessing the chemical impacts of pastoral farming on loessial soils in southern New Zealand, 65 (1997) 267

Dynamic of soil chemical parameters in shifting agriculture in the Eastern Amazon, 66 (1997) 153

Soil composition

Calculating heavy metal accumulation in soil: a comparison of methods illustrated by a case-study on compost application, 66 (1997) 71

Soil contamination

The danger of cumulation of nickel in cereals on contaminated soil, 63 (1997) 25

Soil erosion

A simulated erosion approach to assess rates of cattle manure and phosphorus fertilizer for restoring productivity to eroded soils, 65 (1997) 113

Soil fauna

Studies on soil animals in subtropical China, 62 (1997) 119

Soil loss

Hydrologic response to cattle grazing in the Ethiopian highlands, 64 (1997) 33

Soil microbial biomass C

Labile soil carbon pools in subtropical forest and agricultural ecosystems as influenced by management practices and vegetation types, 65 (1997) 69

Soil nutrient

Multi-trophic interactions in cassava, *Manihot esculenta*, cropping systems in the subhumid tropics of West Africa, 66 (1997) 211

Soil organic C

Labile soil carbon pools in subtropical forest and agricultural ecosystems as influenced by management practices and vegetation types, 65 (1997) 69

Soil pH

Nutrient release from decomposing *Lotus corniculatus* residues in relation to soil pH and nitrogen levels, 65 (1997) 107

Soil porosity

Porosity and herbicide leaching in soils amended with olive-mill wastewater, 65 (1997) 151

Soil productivity

A simulated erosion approach to assess rates of cattle manure and phosphorus fertilizer for restoring productivity to eroded soils, 65 (1997) 113

Soil protozoa

Protozoa as bioindicators in agroecosystems, with emphasis on farming practices, biocides, and biodiversity, 62 (1997) 93

Soil quality

Impact of sewage sludge application on soil biological characteristics, 66 (1997) 241

Soil restoration

A simulated erosion approach to assess rates of cattle manure and phosphorus fertilizer for restoring productivity to eroded soils, 65 (1997) 113

Soil top dressing

Effects of sulphadimethoxine on cosmopolitan weeds (*Amaranthus retroflexus* L., *Plantago major* L. and *Rumex acetosella* L.), 65 (1997) 163

Soil type

Methane fluxes following slurry applications to grassland soils: laboratory experiments, 63 (1997) 51

Sorption

Porosity and herbicide leaching in soils amended with olive-mill wastewater, 65 (1997) 151

Southern Scotland

An exploration into the use of Goethean science as a methodology for landscape assessment: the Pishawanton Project, 63 (1997) 145

Spain

A landscape in transition: an historical perspective on a Spanish latifundist farm, 63 (1997) 91

Spatial economics

Spatial economics of local demand for cattle products in Amazon development, 62 (1997) 1

Spatial heterogeneity

Biodiversity evaluation in agricultural landscapes: An approach at two different scales, 62 (1997) 81

Spatial variability

Large area spatial variability of soil chemical properties in central Brazil, 66 (1997) 139

Species' distribution patterns

The landscape as an ecosystem, 63 (1997) 221

Species richness

Vegetation response to cattle grazing in the Ethiopian highlands, 64 (1997) 43

Spiders

Maintaining spider biodiversity in agroecosystems as a tool in pest control, 62 (1997) 229

Spring wheat

Photosynthetic and growth responses of old and modern spring wheat cultivars to atmospheric CO₂ enrichment, 64 (1997) 65

S:R ratios

Estimating shoot to root ratios and annual carbon inputs in soils for cereal crops, 63 (1997) 61

Stem borers

A systems approach to assess crop health and maize yield losses due to pests and diseases in Cameroon, 65 (1997) 33

Stimulo-deterrant diversionary strategy

Developing sustainable pest control from chemical ecology, 64 (1997) 149

Subsidization

Subsidy removal and agroecosystem health, 64 (1997) 245

Subtractive fertilizer trial

Nutrient availability in soil samples from shifting cultivation sites in the semi-arid Caatinga of NE Brazil, 65 (1997) 177

Subtropical China

Studies on soil animals in subtropical China, 62 (1997) 119

Sulphadimethoxine

Effects of sulphadimethoxine on cosmopolitan weeds (*Amaranthus retroflexus* L., *Plantago major* L. and *Rumex acetosella* L.), 65 (1997) 163

Sulphonamides

Effects of sulphadimethoxine on cosmopolitan weeds (*Amaranthus retroflexus* L., *Plantago major* L. and *Rumex acetosella* L.), 65 (1997) 163

Sulphur dioxide

Responses of *Agrostis capillaris* to gaseous pollutants and wet nitrogen deposition, 66 (1997) 89

Sum of bases

Large area spatial variability of soil chemical properties in central Brazil, 66 (1997) 139

Sunflower damage

Economics of cattail (*Typha* spp.) control to reduce blackbird damage to sunflower, 65 (1997) 141

Survey

A systems approach to assess crop health and maize yield losses due to pests and diseases in Cameroon, 65 (1997) 33

Sustainability

Biodiversity as an organizing principle in agroecosystem management: Case studies of holistic resource management practitioners in the USA, 62 (1997) 199

The significance of biodiversity for sustaining agricultural production and role of women in the traditional sector: the Ethiopian experience, 62 (1997) 215

Crop protection and its integration within sustainable farming systems, 64 (1997) 87

Assessing the economic consequences of sustainability in agriculture, 64 (1997) 95

The policy approach to sustainable farming systems in the EU, 64 (1997) 103

Estimates of sub-national nutrient balances as sustainability indicators for agro-ecosystems in Ecuador, 65 (1997) 127

Sustainability indicators

Socioeconomic pressure, demographic pressure, environmental loading and technological changes in agriculture, 65 (1997) 201

Sustainable agriculture

What does objectivity mean for analysis, valuation and implementation in agricultural landscape planning? A practical and epistemological approach to the search for sustainability in 'agriculture', 63 (1997) 133

SYNOPS 1.1: a model to assess and to compare the environmental risk potential of active ingredients in plant protection products, 64 (1997) 181

Socioeconomic pressure, demographic pressure, environmental loading and technological changes in agriculture, 65 (1997) 201

Effect of compost addition and crop rotation point upon VAM fungi, 65 (1997) 257

Sustainable Farming Systems

Crop protection and its integration within sustainable farming systems, 64 (1997) 87

Sustainable farming systems

The present and future use of technology to detect plant pathogens to guide disease control in sustainable farming systems, 64 (1997) 125

Sweetpotato weevil

The effect of the indigenous cultural practices of in-ground storage and piecemeal harvesting of sweetpotato on yield and quality losses caused by sweetpotato weevil in Uganda, 64 (1997) 191

Swidden agriculture

Developing swidden agriculture and the threat of biodiversity loss, 62 (1997) 187

Synergistic effect

Transfer characteristics and uptake of nickel by red clover grown on nickel amended alluvial soils of an arid zone, 65 (1997) 49

Technological development

Socioeconomic constraints to farming with biodiversity, 62 (1997) 145

Testate amoebae

Protozoa as bioindicators in agroecosystems, with emphasis on farming practices, biocides, and biodiversity, 62 (1997) 93

The Netherlands

Some criteria for landscape quality applied on an organic goat farm in Gelderland, the Netherlands, 63 (1997) 185

Tillage systems

Ecological interpretation of weed flora dynamics under different tillage systems, 66 (1997) 177

Tolerance index

Transfer characteristics and uptake of nickel by red clover grown on nickel amended alluvial soils of an arid zone, 65 (1997) 49

Traditional cultural practices

The effect of the indigenous cultural practices of in-ground storage and piecemeal harvesting of sweetpotato on yield and

quality losses caused by sweetpotato weevil in Uganda, 64 (1997) 191

Traditional farming

The significance of biodiversity for sustaining agricultural production and role of women in the traditional sector: the Ethiopian experience, 62 (1997) 215

Training

Approaches to integrated crop protection in university education and training, 64 (1997) 173

Trampling

Hydrologic response to cattle grazing in the Ethiopian highlands, 64 (1997) 33

Trifolium

Evaluation of phosphorus uptake and use efficiency and nitrogen fixation potential by African clovers, 65 (1997) 169

***Trifolium subterraneum* (subterranean clover)**

Assessing effects of ambient ozone on injury and growth of *Trifolium subterraneum* at four rural sites in the Netherlands with ethylenedurea (EDU), 65 (1997) 79

Tuscany

Landscape and nature production capacity of organic types of agriculture: examples of organic farms in two Tuscan landscapes, 63 (1997) 159

Uganda

The effect of the indigenous cultural practices of in-ground storage and piecemeal harvesting of sweetpotato on yield and quality losses caused by sweetpotato weevil in Uganda, 64 (1997) 191

Undersewing

Design and use of a time-sorting pitfall trap for predatory arthropods, 65 (1997) 15

Urine

Recovery of N derived from ^{15}N -labelled grass/clover residues, recently immobilised urine ^{15}N or native soil organic N by a wheat crop following cultivation of a pasture soil, 63 (1997) 67

Vegetation cover

Vegetation response to cattle grazing in the Ethiopian highlands, 64 (1997) 43

Vegetation dynamics

Moorland vegetation succession after the control of bracken with asulam, 62 (1997) 41

Vegetation management

Vegetation management in organic cabbages and pitfall catches of carabid beetles, 64 (1997) 267

Venturia inaequalis

Disease-management components of advanced integrated pest management in apple orchards, 66 (1997) 31

Vertisol

Evaluation of phosphorus uptake and use efficiency and nitrogen fixation potential by African clovers, 65 (1997) 169

Vesicular-arbuscular mycorrhizal fungi

Effect of compost addition and crop rotation point upon VAM fungi, 65 (1997) 257

Wastewater

Porosity and herbicide leaching in soils amended with olive-mill wastewater, 65 (1997) 151

Agricultural reuse of wastewater: nation-wide cost-benefit analysis, 66 (1997) 113

Water

A landscape in transition: an historical perspective on a Spanish latifundist farm, 63 (1997) 91

Watershed management

Rehabilitation of a semiarid ecosystem in Senegal. Experiments at the hillside scale, 65 (1997) 95

Weed

Effects of sulphadimethoxine on cosmopolitan weeds (*Amaranthus retroflexus* L., *Plantago major* L. and *Rumex acetosella* L.), 65 (1997) 163

Weed community

Ecological interpretation of weed flora dynamics under different tillage systems, 66 (1997) 177

Weed control

A review of the use of models of weed control in Integrated Crop Protection, 64 (1997) 165

Weeds

Arable flora in sprayed and unsprayed crop edges, 66 (1997) 223

Weed seed predation

Weed seed loss due to predation in Michigan maize fields, 66 (1997) 189

West Africa

Multi-trophic interactions in cassava, *Manihot esculenta*, cropping systems in the subhumid tropics of West Africa, 66 (1997) 211

Western Australia

Nutrient and metal content of water, sediment and soils amended with bauxite residue in the catchment of the Peel Inlet and Harvey Estuary, Western Australia, 64 (1997) 219

Wetlands

The influence of soil redox conditions on atrazine degradation in wetlands, 66 (1997) 41

Wet nitrogen deposition

Responses of *Agrostis capillaris* to gaseous pollutants and wet nitrogen deposition, 66 (1997) 89

Wetting scheme

Nitrate leaching affected by management options with respect to urine-affected areas and groundwater levels for grazed grassland, 66 (1997) 197

Wheat

Recovery of N derived from ^{15}N -labelled grass/clover residues, recently immobilised urine ^{15}N or native soil organic N by a wheat crop following cultivation of a pasture soil, 63 (1997) 67

Wind

Influence of the immediate environment on the dispersal of *Sitona lineatus* L. (Col., Curc.) during crop colonisation, 64 (1997) 261

Within-field soil variability

Nitrate leaching affected by management options with respect to urine-affected areas and groundwater levels for grazed grassland, 66 (1997) 197

Women and genetic diversity

The significance of biodiversity for sustaining agricultural production and role of women in the traditional sector: the Ethiopian experience, 62 (1997) 215

Wood mouse

The impacts of molluscicide pellets on spring and autumn populations of wood mice *Apodemus sylvaticus*, 64 (1997) 211

YIB

Microbial diversity and application of microbial products for agricultural purposes in China, 62 (1997) 237

Yield-increasing bacteria

Microbial diversity and application of microbial products for agricultural purposes in China, 62 (1997) 237

Yield indicators

The danger of cumulation of nickel in cereals on contaminated soil, 63 (1997) 25

Yield loss

Reduction of stemborer damage by intercropping maize with cowpea, 62 (1997) 13

Yield loss assessment

A systems approach to assess crop health and maize yield losses due to pests and diseases in Cameroon, 65 (1997) 33

Zootechnology

Natural resin association such as incense and propolis in zootechnology, 62 (1997) 247

